

21. **Allowable Emissions:** The Permittee shall not allow emissions into the atmosphere to exceed any of the following:

	Daily Emission Limits	Twelve Month Rolling Average Emission Limits
Carbon Monoxide (CO)		
Oxides of Nitrogen (NO _x)		
Total Volatile Organic Compounds (VOCs)		

The twelve month rolling average shall be calculated at the end of each calendar month by summing the emissions for the most recent twelve calendar months.

22. **Control Device Parameters:**

- a. The Soil Vapor Extraction (SVE) system shall be operated with a catalytic oxidizer inlet temperature of at least °F.
- b. The VOC concentration at the inlet to the catalyst shall not exceed parts per million by volume (ppmv).
- c. The flow rate through the catalyst shall not exceed standard cubic feet per minute (scfm).
- d. The VOC destruction efficiency of the catalytic oxidizer shall be at least 90%.
- e. The SVE system shall not be operated unless the catalytic oxidizer is operating within the parameters listed in this section and its temperature recorder is operating properly. However, the catalytic oxidizer may be bypassed if the total of all VOCs being discharged to atmosphere is less than three pounds per day.

23. **Testing:**

- a. VOC Destruction Testing: The Permittee shall conduct an efficiency test on the catalytic oxidizer within ten (10) days after start-up and quarterly thereafter. The testing shall determine the VOC concentration and the overall flow rate into the catalytic oxidizer as well as the catalyst's VOC destruction efficiency. During testing, the Permittee shall record the position of any valves or other devices which will allow the dilution or restrict the flow of the soil gasses. The Permittee shall notify the Department in writing of the actual date and time of any required testing at least ten (10) days in advance so that the Department may have a representative attend. A report covering the results of any required testing shall be submitted to the Department within thirty (30) days after each test for review and a compliance determination.

- b. Flow Testing: When any manual adjustments are made which affect the flow or concentration of gasses to the catalytic oxidizer, the Permittee shall measure and record the following:
 - 1. The flow rate to the catalyst.
 - 2. The concentration of VOCs going to the catalyst.
 - 3. The position of all valves or other device which will allow the dilution or restrict the flow of the soil gasses.A copy of the flow testing records shall be maintained at the site.

24. **Other:**

- a. The Permittee shall notify the Department in writing within seven (7) days after termination of soil remediation activities at the site.
- b. No halogenated organic compounds may be processed in the catalytic unit.
- c. The system shall not contain a manually operated valve or other type of device which will allow the dilution or restrict the flow of the soil gasses unless the position of the device can be measured and controlled.

25. **Operations and Maintenance (O&M) Plan:** The Permittee shall submit an O&M Plan to the Department for the carbon adsorption system. This O&M Plan shall be prepared in accordance with Department guidelines, and shall be submitted to the Department's Air Quality Compliance Manager within 45 days of the issuance of this permit.

26. **Reporting:** The Permittee shall submit air monitoring quarterly reports on the carbon adsorption system performance. The reports shall present operational data, analytical laboratory results, equipment malfunctions, maintenance activities, and an analysis of the data presented.